



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

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Salt Lake City, Utah 84180-1203
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May 5, 1995

CERTIFIED RETURN RECEIPT
P 074 978 940

William Bown
Utah Building Stone, Inc.
842 West 400 North
West Bountiful, Utah 84087

Re: Site inspection, Dove Creek Quarry, S/003/016, Box Elder County, Utah

Dear Mr. Bown:

On April 25, 1995, a joint inspection between the US Forest Service, the Bureau of Land Management and the Division was conducted at your Dove Creek Quarry in Box Elder County, Utah (inspection memo enclosed). During this inspection it was noted that surface disturbance has exceeded the five-acre disturbed area limit for a small mining operation. The disturbed area was measured at approximately 13 acres, using 1993 aerial photography. At this time, you have two options to remedy this situation. First, you may reclaim a portion of the disturbed area to reduce the acreage below the five-acre threshold; or secondly, submit a notice to conduct large mining operations (LMO form enclosed). The Division will allow you 45-days to either reclaim a portion of the quarry to reduce the area of disturbance to less than five acres, or to submit a complete notice to conduct large mining operations.

Also noted during the inspection were empty oil and grease containers, numerous oil stains, and other garbage. These items need to be cleaned up and properly disposed of.

Please don't hesitate to call either myself or Lynn Kunzler of my staff if you have any questions. Please be advised that failure to meet the 45-day time limit may result in the Division taking enforcement action.

Sincerely,

D. Wayne Hedberg
Permit Supervisor
Minerals Regulatory Program

jb

Enclosures: MR-LMO & 4/25/95 insp memo

cc: Gordon Struthers, USFS
Dan Washington, BLM
Lynn Kunzler, DOGM (route)



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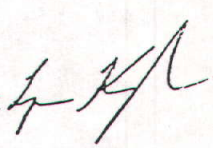
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April 27, 1995

TO: Minerals File

FROM: Lynn Kunzler, Reclamation Specialist 

RE: Site Inspection, Utah Building Stone, Inc., Dove Creek Quarry, S/003/016, Box Elder County, Utah

Date of Inspection: April 25, 1995
Time of Inspection: 1:30 p.m. - 2:30 p.m.
Conditions: Cloudy, windy, intermittent snow
Participants: Gordon Struthers, USFS; Dan Washington, BLM; and Lynn Kunzler, DOGM

Purpose of Inspection: Inspect status of site conditions.

The annual report for this site, received February 28, 1995, indicated a total disturbed acreage of 2 acres. Upon arriving at the site it was evident that this acreage was incorrect. Three areas have obviously been disturbed by this operation (see sketch), for an estimated 12-15 acres of disturbance (including roads). In addition to the three quarry areas, a camp area was located to the east, a small prospect was located across the drainage to the south and another quarry (about 2-3 acres in size) was located near the top of the hill to the south. Mr. Struthers thought that it may belong to the Bown's, but was not sure (a UGS publication lists the Bown's as the operator and refers to it as the Gold Sheen Quarry). It was not located on USFS property. Mr. Struthers has a current (no more than two-years old) aerial photo of this site that he will send to the Division so that we can more accurately estimate the disturbed acreage.

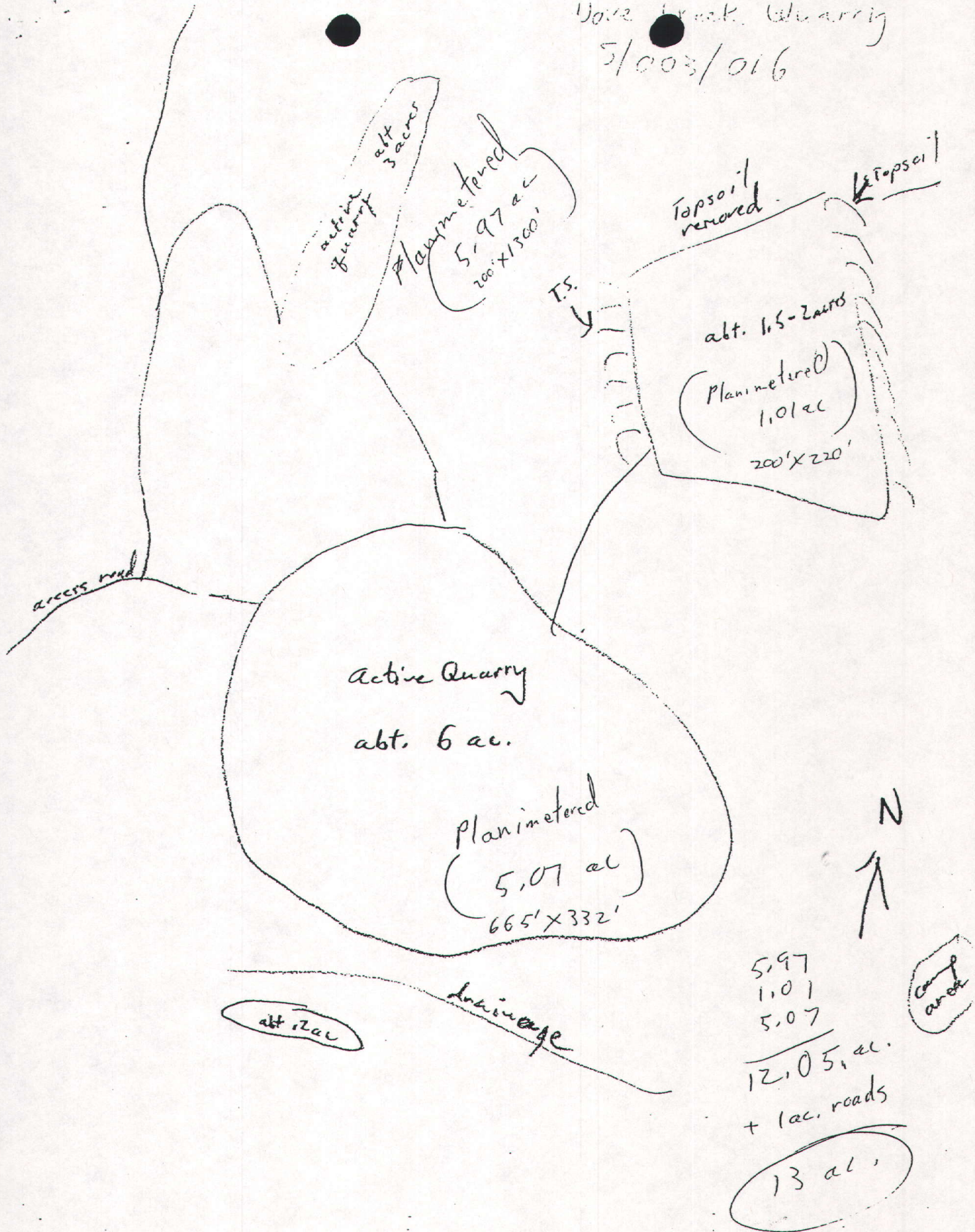
Throughout this site there was many oil stains on the ground, including evidence of a recent oil change where the waste oil was dumped on the ground (along with the used oil filters). Several empty oil jugs and grease tubes were observed as well. The trackhoe used at this site had been nicknamed "old leaky" due to the large amount of oil it leaks during operation. Mr. Struthers has been after the Bown's to have this remedied for quite some time. It was suggested that the USFS take enforcement action by having the Bown's remove contaminated areas and haul the material to an approved disposal area.

This area needs to be permitted as a large mining operation. Photographs were taken of the area to document current conditions.

jb
cc: Gordon Struthers, USFS
Dan Washington, BLM
S003016.ins



Dove Creek Quarry
5/003/016



File #: M / /

Date Approved: / /

DOGM Lead:

STATE OF UTAH
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DIVISION OF OIL, GAS AND MINING
355 West North Temple
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Salt Lake City, Utah 84180-1203
Telephone: (801) 538-5340

NOTICE OF INTENTION TO COMMENCE LARGE MINING OPERATIONS

The informational requirements in this form are based on provisions of the Mined Land Reclamation Act, Title 40-8, Utah Code Annotated 1953, General Rules and Rules of Practice and Procedures.

This form applies only to mining operations which disturb or will disturb greater than five acres at any given time.

"MINING OPERATIONS" means those activities conducted on the surface of the land for the exploration for, development of, or extraction of a mineral deposit, including, but not limited to, surface mining and the surface effects of underground and in situ mining, on-site transportation, concentrating, milling, evaporation, and other primary processing.

"Mining operation" does not include: the extraction of sand, gravel, and rock aggregate; the extraction of oil and gas as defined in Chapter 6, Title 40; the extraction of geothermal steam; smelting or refining operations; off-site operations and transportation; or reconnaissance activities which will not cause significant surface resource disturbance or involve the use of mechanized earth-moving equipment such as bulldozers or backhoes.

PLEASE NOTE: If extra space is required to complete a section, please attach additional sheets and include cross-referenced page numbers as necessary. The operator may submit this information on an alternate form, however the same or similar format must be used.

I. GENERAL INFORMATION (Rule R647-4-104)

1. Mine Name: _____

2. Name of Applicant or Company: _____

Corporation () Partnership () Individual ()

3. Permanent Address: _____

4. Company Representative (or designated operator):

Name: _____

Title: _____

Address: _____

Phone: _____

5. Location of Operation:

County(ies) _____

_____ 1/4 of _____ 1/4, Section: _____ Township: _____ Range: _____

_____ 1/4 of _____ 1/4, Section: _____ Township: _____ Range: _____

_____ 1/4 of _____ 1/4, Section: _____ Township: _____ Range: _____

6. Ownership of the land surface (circle which applies): Private (Fee),
Public Domain (BLM), National Forest (USFS), State of Utah or other:

Name: _____ Address: _____

Name: _____ Address: _____

Name: _____ Address: _____

Name: _____ Address: _____

7. Owner(s) of record of the minerals to be mined:

Name: _____ Address: _____

Name: _____ Address: _____

Name: _____ Address: _____

Name: _____ Address: _____

8. Have the above owners been notified in writing? Yes _____ No _____
If no, why not? _____

9. Does the operator have legal right to enter and conduct mining operations on the land covered by this notice? Yes _____ No _____.

II. **MAPS, DRAWINGS & PHOTOGRAPHS** (Rule R647-4-105)

1. **Base Map**

A complete and correct topographic base map (or maps) with appropriate contour intervals must be submitted with this notice which show all of the items on the following checklist. The scale should be approximately 1 inch = 2,000 feet (preferably a USGS 7.5 minute series or equivalent topographic map where available) showing the location of lands to be affected in sufficient detail to permit calculation of proposed surface disturbance.

Map Checklist

Please check off each section as it is drawn on the map(s). Does the map show:

- (a) Property boundaries of surface ownership of all lands which are to be affected by the mining operations; _____
- (b) Perennial streams, springs and other bodies of water, roads, buildings, landing strips, electrical transmission lines, water wells, oil and gas pipelines, existing wells or boreholes, or other existing surface or subsurface facilities within 500 feet of the proposed mining operations; _____
- (c) Proposed route of access to the mining operations from nearest publicly maintained highway (Map scale appropriate to show access); _____
- (d) Known areas which have been previously impacted by mining or exploration activities within the proposed land affected; _____
- (e) Acreages proposed to be disturbed or reclaimed each year (or other suitable time period). _____

2. **Surface Facilities Map**

A surface facilities map shall be provided at a scale of not less than 1" = 500'.

Map Checklist

Please check off each section as it is drawn on the map. Does the map show:

- (a) Proposed surface facilities, including but not limited to buildings, stationary mining/processing equipment, roads, utilities, power lines, proposed drainage control structures, and the location of topsoil storage areas, overburden/waste dumps, tailings or processed waste facilities, disposal areas for overburden, solid and liquid wastes, and wastewater discharge, treatment and containment facilities; _____
- (b) A border clearly outlining the extent of the surface disturbed area proposed to be affected by mining, and the number of acres proposed to be affected; _____
- (c) The location of known test borings, pits, or core holes. _____

3. Additional Maps

Additional maps and drawings may be required as applicable in accordance with Rule R647-4-105.3.

III. OPERATION PLAN (Rule R647-4-106)

1. Mineral(s) to be mined: _____

2. Acreage to be disturbed:

Minesite (operating, storage, disposal areas, etc.): _____

Access/haul roads/conveyors: _____

Associated on-site processing facilities: _____

Total: _____

3. Describe methods and procedures to be employed for mining, on-site processing and concurrent reclamation.

4. **Elevation of groundwater (if known):** _____ ft.
5. **Thickness of soil material to be stockpiled:** _____ inches
Area from which soil material can be salvaged: _____ acres
Volume of soil to be stockpiled: _____ cu. yds.
(cross reference with item IV-17)
6. **Thickness of overburden:** _____ ft.
7. **Thickness of mineral deposit:** _____ ft.
8. **Volume of refuse, tailings, and processing waste stockpiles:** _____ cu. yds.
9. **Acreage and capacity of tailings ponds and water storage ponds to be constructed:** _____ acres
_____ Acre-Feet
10. **Describe how topsoil or subsoil material will be removed, stockpiled and protected:** _____

11. **Describe how overburden material will be removed and stockpiled:** _____

12. **Describe how tailings, waste rock, rejected materials, etc. will be disposed of:** _____

13. **Potentially deleterious materials must be analyzed for toxicity. Describe the nature of any deleterious materials which will be used, encountered, or generated onsite (See Rule R647-1-004):** _____

Specify analyses to be conducted on these materials. _____

NOTE: The Division may stipulate additional analyses.

14. **For each tailings pond, sediment pond, or other major drainage control structures, attach design drawings and typical cross-sections.**

15. Describe any proposed effluent discharge points (UPDES) and show their location on the map provided under Rule R647-4-105.2. Give the proposed discharge rate and expected water quality. Attach chemical analyses of such discharge if available. _____
- _____

16. **Vegetation** - The operator is required to return the land to a useful condition and reestablish at least 70 percent of the premining vegetation ground cover.

The ground cover percentage figure is determined by sampling and averaging the vegetation type(s) on the areas to be mined (see Attachment I for suggested sampling methods).

- (a) Vegetation Survey - The following information needs to be completed based upon the vegetation survey:

Sampling method used _____

Number of plots or transects _____

<u>Ground Cover</u>	<u>Percent</u>
Vegetation (perennial grass, forb and shrub cover)	_____
Litter	_____
Rock/rock fragments	_____
Bare ground	_____
	100%
Revegetation Requirement - 70 percent of above vegetation figure)	_____ %

List the four (4) predominant perennial species of vegetation growing on the area.

- (b) Photographs - The operator may submit photographs (prints) of the site sufficient to show existing vegetation conditions. These photographs should show the general appearance and condition of the area to be affected and may be utilized for comparison upon reclamation of the site. Photographs should be clearly marked as to the location, orientation and the date that the pictures were taken.

17. **Soils** - The plan shall include an order 3 Soil Survey (or similar) and map. This information is needed to determine which soils are suitable for stockpiling for revegetation. This soil data may be available from the local Soil Conservation Service office, or if on public lands, from the land management agency. The map needs to be of such scale that soil types can be accurately determined on the ground (see Attachment I).

- (a) Each soil type to be disturbed needs to be field analyzed for the following:

Depth of soil material	_____ inches
Volume (for stockpiling)	_____ cu. yds.
Texture (field determination)	_____
pH (field determination)	_____
(cross reference with item IV - 5)	

- (b) Where there are problem soil areas (as determined from the field examination) laboratory analysis may be necessary. Soil samples to be sent to the laboratory for analysis need to be about one pint in size, properly labeled, and in plastic bags. Each of the soil horizons on some sites may need to be sampled.

18. **Provide a narrative description of the geology of the area and/or a geologic cross section:** _____
- _____
- _____

IV. **IMPACT ASSESSMENT** (Rule R647-4-109)

Please provide a general narrative description identifying potential surface and/or subsurface impacts. Where applicable, this description should include surface and groundwater systems, threatened or endangered species or their critical habitats, existing soil resources for reclamation, slope stability, erosion control, air quality, and public health and safety.

V. RECLAMATION PLAN (Rule R647-4-110)

1. List current land use(s) other than mining: _____

2. List future post-reclamation land-use(s) proposed: _____

3. Describe each phase of reclamation of the minesite in detail under the following categories:

(a) Disposal of Trash

Describe how buildings, foundations, trash and other waste materials will be disposed of. _____

(b) Backfilling and Grading

Describe equipment and methods to be employed, amount of materials to be moved and final disposition of any stockpiled materials. _____

(c) Soil Material Replacement

In order to reestablish the required ground cover, one to two feet (depending on underlying material) of suitable soil material usually has to be redistributed on the areas to be reseeded. If the stockpiled soil isn't sufficient for this, soil borrow areas will need to be located.

How much soil material is planned to be put on the area to be reseeded? _____ inches

Where will this material come from? _____

How will it be transported and spread? _____

(d) Seed Bed Preparation

Describe how the seedbed will be prepared and equipment to be used. _____

(The Division recommends ripping or discing six inches deep)

(e) Seed Mixture - List the species to be seeded:

<u>Species Name</u>	<u>Seeding Rate</u> <u>(lbs Pure Live Seed/Acre)</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

(The Division recommends seeding 20 lbs./acre of native and introduced adaptable species of grass, forb, and browse seed and will provide a specific species list if requested)

(f) Seeding Method

Describe method of planting the seed. _____

(The Division recommends planting the seed with a rangeland or farm drill, or if broadcast seeded, harrow or rake the seed 1/4 to 1/2 inch into the soil. Fall is the preferred time to seed)

(g) Fertilization

Describe fertilization method and rate. _____

(h) Other Revegetation Procedures

If other reclamation procedures, such as mulching, irrigation, etc., are planned, describe them. _____

VI. VARIANCE (Rule R647-4-112)

Any planned deviations from Rule R647-4-007 (Operating Practices), R647-4-108 (Hole

Plugging Requirements), or Rule R647-4-111 (Reclamation Practices) must be identified below.

<u>Rule Number</u>	<u>Title/Category</u>
_____	_____
_____	_____
_____	_____
_____	_____

For each variance requested, attach a narrative statement describing and delineating the area proposed to be affected by the variance, justifying the need for the variance, and discussing alternate methods or measures to be utilized.

VII. SURETY (Rule R647-4-113)

A Reclamation surety must be provided to the Division prior to final approval of this application. In calculating this amount, the Division will consider the following major steps:

- 1) Clean-up and removal of structures.
- 2) Backfilling, grading and contouring.
- 3) Soil material redistribution and stabilization.
- 4) Revegetation (preparation, seeding, mulching)

To assist the Division in determining a reasonable surety amount, please attach a reclamation cost estimate which addresses each of the above steps.

VIII. SIGNATURE REQUIREMENT

I hereby certify that the foregoing is true and correct.

Signature of Operator/Applicant: _____

Name (typed or print): _____

Title/Position (if applicable): _____

Date: _____

PLEASE NOTE:

Section 40-8-13(2) of the Mined Land Reclamation Act provides for maintenance of confidentiality concerning certain portions of this report. Please check to see that any information desired to be held confidential is so labeled and included on separate sheets or maps.

Only information relating to the location, size or nature of the deposit may be protected as confidential.

Confidential Information Enclosed: () Yes () No

Attachment I

Vegetation Cover Sampling

Vegetation cover sampling determines the amount of ground that is covered by live vegetation. It is divided into four categories which equal 100 percent. They are:

Vegetation - This is the live perennial vegetation. Care should be taken to avoid sampling in disturbed areas that have a large percentage of annual or weedy vegetation, such as cheatgrass and russian thistle.

Litter - This is the dead vegetation on the ground, such as leaf and stem litter.

Rock/rock fragments - This is the rock and rock fragments on the soil surface.

Bare ground - This is the bare soil which is exposed to wind and water erosion.

Cover Sampling - The following methods are acceptable:

Ocular Estimation

This method visually estimates the percentage of ground covered in a plot by the four components. Plot size is usually a meter or yard square or a circular plot 36 inches in diameter. Ten to 20 plots should be randomly sampled in each major vegetation type.

Line Intercept

Percent ground cover is obtained by stretching a tape measure (usually 100') over the ground and then recording which of the four components is under each foot mark. At least two of these transects should be randomly laid out and measured in each major vegetation type.

Soil Survey and Sampling Methods

If a SCS or land management agency soil survey is not available, the operator shall delineate all soil types that will be disturbed by mining on a map. Each soil type shall be sampled for its characteristics and inherent properties. Representative sampling locations should have similar geologic parent material, slopes, vegetative communities and aspects. The sampling locations should be representative of the soil type and be identified on the map. Sampling shall be at a minimum of one (1) for each soil type disturbed.

The soil map needs to be of sufficient scale so that each soil type can be accurately located on the ground.